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APPLICATION NO.	. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/632,337		08/01/2003	Thomas E. Strangman	H0004563	3585	
	7590	03/11/2005		EXAMINER		
Honeywell	Internatio	onal, Inc.	NGUYEN, NINH H			
Law Dept. AB2 P.O. Box 2245			•	ART UNIT	PAPER NUMBER	
Morristown,	NJ 0796	52-9806	3745			

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application N	o.	Applicant(s)				
		10/632,337		STRANGMAN, THOMAS E.				
	Office Action Summary	Examiner		Art Unit				
		Ninh H. Nguye		3745				
Period fo	The MAILING DATE of this communication a or Reply	appears on the cov	rer sheet with the c	orrespondence a	ddress			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the provision of the provi	N. 1.136(a). In no event, he reply within the statutory of will apply and will expitute, cause the application	owever, may a reply be tim minimum of thirty (30) days ire SIX (6) MONTHS from t n to become ABANDONEL	ely filed s will be considered time the mailing date of this of (35 U.S.C. § 133).				
Status								
1)🛛	Responsive to communication(s) filed on 01,	<u>/12/25</u> .						
2a)⊠	This action is FINAL . 2b) Th	his action is non-f	inal.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)⊠ 6)⊠ 7)⊠	 Claim(s) 1-32 and 39-43 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1-27,30,32,42 and 43 is/are allowed. Claim(s) 28,29,31,39 and 40 is/are rejected. Claim(s) 41 is/are objected to. Claim(s) are subject to restriction and/or election requirement. 							
Applicati	on Papers							
10)⊠	The specification is objected to by the Examination The drawing(s) filed on <u>01 August 2003</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the I	e: a)⊠ accepted ne drawing(s) be he ection is required if	ld in abeyance. See the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).			
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	• •		_					
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	₉₈₎ 5) <u></u>	Interview Summary (Paper No(s)/Mail Dat Notice of Informal Pa Other:	te	O-152)			

Application/Control Number: 10/632,337

Art Unit: 3745

DETAILED ACTION

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 28, 29, 39, and 40 are rejected under 35 U.S.C. 102(b) as being anticipated by Chiang (4,813,470).

Chiang discloses an integral ring of single crystal turbine airfoil (product by process; Fig. 1B; col. 1, lines 11-12) comprising an inner rim, a plurality of airfoils integral with the inner rim, and an outer rim integral with the inner rim and with the plurality of airfoils.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 31 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chiang in view of Terkelsen (4,289,570).

Chiang discloses all the limitations except the single crystal supper alloy seed crystals do not comprise a nickel-based superalloy as claimed.

Terkelsen teaches a method for forming single crystal articles by controllably solidifying molten metal alloy from a seed of the same alloy (col. 2, line 27-30).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made, to make the integral ring of single crystal turbine airfoil of Chiang with the

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single crystal superalloy seed crystals comprise a nickel-based superalloy as commonly done in the art.

Allowable Subject Matter

- 4. Claims 1-27, 30, 32, 42, and 43 are allowed.
- 5. Claim 41 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. Applicant's amendment, along with the amended claim 28 and new claims 39-43, necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS**ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner Ninh Nguyen whose telephone number is (571) 272-

4823. The examiner can be normally reached on Monday-Friday from 7:30 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward Look, can be reached at (571) 272-4820. The fax number for this group is

703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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at 866-217-9197 (toll-free).

NINH H. NGUÝEŇ RIMARY FXAMINER Page 4

PRIMARY EXAMINER

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March 7, 2005